

Amendments to the Claims

Claim 1 (Currently amended): A method for operating a washing machine having a washing basket mounted for rotation within a stationary tub, the washing basket having an open rim and a basket wall containing a plurality of holes therein, a quantity of washing fluid being within the washing basket, and one or more fabrics being within the washing basket for being washed, a flexible stationary boot seal being positioned closely adjacent the rim of the washing basket, the method comprising:

rotating the washing basket within the stationary tub and relative to the boot seal at a first rotational speed insufficient to plaster the fabrics against the basket wall in response to centrifugal force;

gradually increasing the rotational speed of the washing basket to a second rotational speed sufficient to cause the fabrics to be plastered against the basket wall in response to centrifugal force;

increasing the rotational speed of the washing basket to a third rotational speed higher than the second rotational speed;

reducing the rotational speed of the washing basket to the second rotational speed;

draining the washing fluid from the washing basket;

beginning a spin cycle by rotating the basket at a fourth rotational speed greater than the first, second, and third rotational speeds and sufficient to cause the washing fluid to be extracted from the fabrics and to move outwardly through the holes in the washing basket wall in response to centrifugal force; ~~and~~

~~sensing for a reduced rotational speed of the washing basket or increased torque of the rotating washing basket caused by the fabrics frictionally engaging the flexible boot during rotation of the washing basket at the spin speed.~~

sensing rotational speed of the washing basket;

sensing torque of the rotating washing basket; and

determining changes in torque and decreased rotational speed of the washing basket caused by fabrics frictionally engaging the flexible boot during rotation of the washing machine basket at a spin speed.

Claim 2 (Original): The method according to claim 1 and further comprising checking for an imbalance condition of the fabrics within the washing basket while the washing basket is rotating at the second rotational speed and after the draining step.

Claim 3 (Original): The method according to claim 2 and further comprising stopping the rotation of the washing basket when an imbalance condition is sensed, and then increasing the rotational speed of the washing basket to the second rotational speed.

Claim 4 (Original): The method according to claim 2 wherein the step of checking for an imbalance condition comprises sensing whether or not there is a torque change or a rotational speed change of the washing basket while rotating at the second rotational speed.

Claim 5 (Original): The method according to claim 1 and further comprising checking for a high torque or rotational speed lower than the fourth rotational speed during the spin cycle.

Claim 6 (Original): The method according to claim 1 wherein the first rotational speed is approximately 50 rpm.

Claim 7 (Original): The method according to claim 6 wherein the second rotational speed is approximately 85 rpm.

Claim 8 (Original): The method according to claim 7 wherein the third rotational speed is approximately 100 rpm.

Claim 9 (Currently amended): A method for operating a washing machine having a washing basket mounted for rotation within a stationary tub, the washing basket having an open rim and a basket wall containing a plurality of holes therein, a quantity of washing fluid being within the washing basket, and one or more fabrics being within the washing basket for being washed, a flexible stationary boot seal being positioned closely adjacent the rim of the washing basket, the method comprising:

rotating the washing basket at a tumble speed insufficient to cause the fabrics to become plastered against the basket wall in response to centrifugal force but instead to tumble within the washing basket during rotation;

maintaining the washing fluid within the washing basket;

increasing the rotational speed of the washing basket to a plaster speed sufficient to cause the fabrics to become plastered against the basket wall in response to centrifugal force;

draining the washing fluid from the washing basket;

sensing whether or not the fabrics create an imbalance condition during the rotation of the washing basket at the plaster speed;

reducing the rotational speed of the washing basket for a predetermined time interval to the tumble speed in response to sensing an imbalance condition during the rotation of the basket at the plaster speed, whereby the fabrics cease being plastered against the basket wall but instead tumble within and redistribute within the washing basket;

resuming the plaster speed after the predetermined time interval;

increasing the rotational speed to a spin speed sufficient to cause the washing fluid within the fabrics to be extracted and pass out of the washing basket through the holes in the wall of the washing basket.; and

~~sensing for a reduced rotational speed of the washing basket or increased torque of the rotating washing basket caused by the fabrics frictionally engaging the flexible boot during rotation of the washing basket at the spin speed.~~

sensing rotational speed of the washing basket;

sensing torque of the rotating washing basket; and

determining changes in torque and decreased rotational speed of the washing basket caused by fabrics frictionally engaging the flexible boot during rotation of the washing machine basket at a spin speed.

Claim 10 (Previously presented): The method according to claim 9 and further comprising stopping the rotation of the washing basket in response to sensing the increased torque or the reduced rotational speed of the washing basket.

Claim 11 (Cancelled).

Claim 12 (Currently amended): A method for operating a washing machine having a washing basket mounted for rotation within a stationary tub, the washing basket having an open rim and a basket wall containing a plurality of holes therein, a quantity of washing fluid being within the washing basket, and one or more fabrics being within the washing basket for being washed, a flexible stationary boot seal being positioned closely adjacent the rim of the washing basket, the method comprising:

rotating the washing basket at a spin speed sufficient to cause the washing fluid within the fabrics to be extracted and pass out of the washing basket through the holes in the wall of the washing basket;

~~sensing for either increased torque or reduced rotational speed of the washing basket caused by the fabrics frictionally engaging the flexible boot during rotation of the washing basket at the spin speed; and~~

sensing rotational speed of the washing basket;

sensing torque of the rotating washing basket;

determining changes in torque and decreased rotational speed of the washing basket caused by fabrics frictionally engaging the flexible boot during rotation of the washing machine basket at a spin speed; and

stopping the rotation of the washing basket in response to the sensing of increased torque or reduced rotational speed of the washing basket.

Claim 13 (Original): The method according to claim 12 wherein the sensing step comprises sensing an increase in torque above a predetermined threshold or sensing a reduction of rotational speed below a predetermined rotational speed level.

Claim 14 (Currently amended): A washing machine for laundering fabrics comprising: a stationary outer tub;

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an inner washing basket having a basket wall, holes within the basket wall, and an annular basket rim defining an open end to the washing basket, the inner washing basket being mounted for rotation within the stationary outer tub;

a washing fluid within the washing basket;

a boot seal attached to the outer tub, the boot seal being positioned closely adjacent the annular rim of the washing basket;

a motor for rotating the washing basket at a tumble speed wherein fabrics within the washing basket are tumbled but do not become plastered against the washing basket wall in response to centrifugal force, and at a plaster speed wherein the fabrics within the washing basket are plastered against the washing basket wall and at a spin speed wherein the fabrics are plastered against the washing basket wall and the washing fluid within the fabrics is extracted from the fabrics and exits the holes in the washing basket in response to centrifugal force;

~~a sensor for sensing either an increased torque of the washing basket or a reduced rotational speed of the washing basket caused by the fabrics frictionally engaging the boot seal while the washing basket is spinning at the spin speed;~~

a sensor for sensing rotational speed of the washing basket;

a sensor for sensing torque of the rotating washing basket; and

a controller connected to the ~~sensor sensors~~ and the motor for causing the motor to rotate the washing basket at either the tumble speed, the plaster speed, or the spin speed;

the controller causing the stopping of the rotational speed of the washing basket in response to the ~~sensor sensors~~ sensing either the increased torque or the reduced rotational speed of the washing basket.

Claim 15 (Original): The washing machine according to claim 14 and further comprising a drain for draining fluid from the washing basket, the controller causing the motor to rotate the washing basket at a plurality of plaster speeds while washing fluid is within the washing basket, and to cause the washing fluid to be drained from the washing basket before causing the motor to rotate the washing basket at the spin speed.

Claim 16 (Currently amended): A method of operating a washing machine, comprising:
initiating a spin cycle for the machine to extract water from laundry in the machine; and
during the spin cycle, sensing for laundry engaging a boot seal adjacent an access opening in the
machine by sensing motor speed and torque.

Claim 17 (Cancelled).

Claim 18 (Previously presented): The method of claim 16 further comprising stopping the
spin cycle in response to sensing laundry engaging the boot seal.

Claim 19 (Previously presented): The method of claim 1 further comprising stopping the
rotation of the washing basket in response to sensing the increased torque or the reduced
rotational speed of the washing basket.